

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number
WO 2004/088000 A3

(51) International Patent Classification⁷: C25C 3/18, 3/06

(21) International Application Number:
PCT/EP2004/003625

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03075948.4 31 March 2003 (31.03.2003) EP

(71) Applicant (for all designated States except US): CORUS
TECHNOLOGY BV [NL/NL]; P.O. Box 10000, NL-1970
CA IJmuiden (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): VAN DER PLAS, Di-
etrich, Willem [NL/NL]; Terschidenstraat 22, nl-2014 CS
Haarlem (NL).

(74) Agent: HANSEN, Willem, Joseph, Maria; Corus Tech-
nology BV, P.O. Box 10000, 1970 CA IJmuiden (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
13 January 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE ELECTROLYSIS OF ALUMINUMSULFIDE

(57) Abstract: Process for the electrolysis of Al_2S_3 , using a bath of molten salt, preferably a bath of molten chloride salt, in which Al_2S_3 is dissolved characterised in that measures are taken to improve the electrical conductivity of the bath, so as to enable an increase in the current density in the bath.

WO 2004/088000 A3

INTERNATIONAL SEARCH REPORT

International Application No

EP/EP2004/003625

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C25C3/18 C25C3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C25C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 464 234 A (MINH NGUYEN Q ET AL) 7 August 1984 (1984-08-07) column 2, lines 21-56 column 3, lines 55-60 column 5, lines 4-31	1,2,6,7, 9,10
X	DE 34 12 114 A (BBC BROWN BOVERI & CIE) 10 October 1985 (1985-10-10) page 5, lines 14-17; claims 1-8 page 6, lines 7-21	1,2,6, 8-10
X	GB 484 014 A (DANIEL GARDNER) 29 April 1938 (1938-04-29) page 1, lines 13-35	1-6,8
A	US 4 265 716 A (LOUTFY RAOUF O ET AL) 5 May 1981 (1981-05-05) column 5, lines 40-49	1-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

17 November 2004

Date of mailing of the international search report

25/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5816 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Hammerstein, G

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/003625

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4464234	A	07-08-1984	NONE	
DE 3412114	A	10-10-1985	DE 3412114 A1	10-10-1985
GB 484014	A	29-04-1938	NONE	
US 4265716	A	05-05-1981	AU 532126 B2	15-09-1983
			AU 5887980 A	18-12-1980
			CA 1143694 A1	29-03-1983
			DE 3022264 A1	18-12-1980
			FR 2459294 A1	09-01-1981
			GB 2051135 A , B	14-01-1981
			JP 56000239 A	06-01-1981